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09/29/00 Transmitted herewith for filing under 35 U.S.C. 111 and 37 C.F.R. 1.53 is the patent application of:

Jon RAMER, Frank LACSON, and Tom CORDDRY

For: CONTEXT-SENSITIVE PERSONAL SITES AND MEMBERSHIP CHANNELS

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☑ 27 (Figs. 1-26) sheets of drawings.							
☐ A certified copy of a application.							
☐ Declaration	☐ Declaration ☐ Signed. ☐ Unsigned.						
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CONTEXT-SENSITIVE PERSONAL SITES AND MEMBERSHIP CHANNELS

REFERENCE TO RELATED APPLICATION

The present application claims priority to U.S. provisional patent application Serial No. 60/156,956, entitled "SmartChannels.NetTM: Context-Sensitive Personal Sites and Membership Channels," and filed September 30, 1999, which is incorporated herein by reference as if fully set forth.

FIELD OF THE INVENTION

The present invention relates to an apparatus and method for implementing a dynamic reconfigurable personal site for organizing, retrieving, and displaying content from a network such as the Internet.

BACKGROUND OF THE INVENTION

Browser programs permit the retrieval and display of content from the Internet. Browsers access web sites using Uniform Resource Locators (URLs) and display the content in pages. In order to locate content, a user must know the URL identifying the location of the content and enter it into the browser. Alternatively, a user can access an online search engine to search for content on the Internet using key words. Search engines, however, often retrieve much irrelevant content since information on the Internet is not organized in a consistent or structured manner. Therefore, locating particular content on the Internet can be a time-consuming and frustrating process. In addition, when content is located at a particular web site, a user typically must manually access the web site each time content from the site is desired. This process requires the user to remember or specify the URLs for the various web sites and manually access them with the browser. The browser, however, does not permit the user to organize the content or collection of URLs in any manner.

Accordingly, a need exists for improvements in accessing, displaying, and organizing content from the Internet or other type of network.

SUMMARY OF THE INVENTION

A method and apparatus consistent with the present invention organizes content in a channel communicating over a network with content sites. The method and apparatus include specifying a channel node having a network address, specifying sub-nodes each selectively having a pointer to particular content, and selectively specifying pages associated with the sub-nodes. The channel node is linked with the sub-nodes, and the pages are also linked with the sub-nodes. A representation is displayed of the channel node, the sub-nodes, and the linking of the nodes and the pages for use in navigating the channel.

A structure consistent with the present invention is used for electronically organizes content in a channel communicating over a network with content sites. The structure includes a channel node having a network address, sub-nodes each selectively having a pointer to particular content, and pages associated with the sub-nodes. The structure includes links between the channel node and the sub-nodes, and links between the pages and the sub-nodes.

A context-sensitive personal sites and membership channel system consistent with the present invention includes a personal-site application software that provides access to a personal site. An identity and context server and database, operatively connected to the personal-site application software, consolidates, indexes, standardizes, manages, and distributes pages and data through the personal site. The site also includes structured and unstructured data and application sources.

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying drawings are incorporated in and constitute a part of this specification and, together with the drawings, explain the advantages and principles of the invention. In the drawings,

- FIG. 1 is a diagram illustrating a navigator accessing various channels and displaying content using a browser;
 - FIG. 2 is a diagram illustrating a node structure for a channel:

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FIG. 3 is a diagram of exemplary components of a machine for using the navigator
FIG. 4 is a flow chart of an administration routine;

FIGS. 5a and 5b are a flow chart of a navigator routine:

FIG. 6 is a screen illustrating display of channel nodes for selection;

FIG. 7 is a screen illustrating node identifiers associated with the nodes for selection; and

FIGS. 8-26 are diagrams of an exemplary database schema for implementing the navigator and a channel.

DETAILED DESCRIPTION

Introduction

SmartChannels.NetTM ("SmartChannels") is a platform and tools for building a new generation of computing and communication applications that bring together the worlds of personal computers, legacy systems, and the Internet. The terms "SmartChannels.net" and "SmartChannels" are trademarks of SmartChannels.net and are used only as labels for one exemplary embodiment.

SmartChannels is page numbering for the Internet. SmartChannels provides context-sensitive membership channels that are dynamically configured web-enabled applications embracing and integrating the Internet and client/server models of computing. These SmartChannels are facilities through which cooperating people and systems can organize and coordinate the exchange of data and documents, and maintain a shared context for collaboration and communication. This collaboration and communication is accomplished by members (or subscribers) accessing a personal site that is connected to SmartChannels Identity and Context management software.

Each SmartChannel is a self-contained system that unlocks internally and externally stored content and functionality and provides subscribers with a single source for personalized information and action. The content can be located at a variety of locations, including, for example, on a local hard-drive, a company's internal file server. Intranet,

databases, third-party databases, Extranet, or Internet web sites. SmartChannels are designed to deliver context-sensitive content to a subscriber's own secure personal site. For example, a user can enter a channel sometimes as an employee and sometimes as a parent. The personal site provides access to content relevant to a specific role or inquiry initiated by the subscriber. Therefore, SmartChannels is an intelligent means of passage for content and work to flow within the setting of a unifying purpose or identity.

SmartChannels is a new kind of web channel technology that makes the Internet easier to use and more meaningful. SmartChannels offers a flexible, personalized, and adaptive platform for enabling "trust relationships" with members and resources. The underlying SmartChannels technology is subject matter independent, and therefore, has broad commercial applicability.

The SmartChannels membership channels are structured into a number of subsystems. These sub-systems include: architecture, programming, networking, and platform
integration. A number of architectural models are discussed below, and in the architectural
overview in the related provisional application, to illustrate the sub-system structure of the
channels. The models describe the SmartChannels technology from seven vantage-points:
conceptual, logical, software application components, product platform, market
applications, physical architecture, and security architecture.

According to the logical architecture, SmartChannels is a pipe with two ends.

Assuring access to the systems that provide services, data, and applications to the subscribers is addressed on the right-hand side of the pipe. Making all the content and actions relevant and easier to use to the subscribers is addressed by the left-hand side of the channel. SmartChannel manages the context of the content and the identity of the subscriber to provide the content to the subscriber in a relevant and meaningful manner.

A SmartChannel can be sponsored by an entity such as a business, an institution, or an organization. The entity sponsors the SmartChannel for its members, whether they are employees, customers, or other affiliated members. Individual members have their own

personal site. This site may or may not include visitors. The individual members each have a data double or a "virtual me" which is a name space on a server that is representative of the member. The name space will have a user repository of data and information that identifies the member. Each individual member may have multiple data doubles representing the individual in a different manner (e.g., a business data double and a personnel life data double).

The personal sites serve the individual members. The personal sites are unique, personalized, customizable, and adaptable. These sites provide the individual members with context-sensitive navigation and transactions. By managing the context and the subscriber's identity (the data double), the personal site provides information that is relevant and of interest to the subscriber from the network. When the subscriber accesses through the personal site, the identity or data double virtually moves with the subscriber so that the service providers provide targeted and relevant services and information based on the data double. Using privacy preferences, the SmartChannel exchanges information from the subscriber's data double with the service providers to provide more personalized content. The subscriber's personal information can be distributed without making the information personally identifiable to the subscriber. SmartChannel only shares the subscriber's information to the extent the subscriber has an authorized SmartChannel. In this manner, the SmartChannel provides enhanced browsing for the subscriber.

One manner in which the SmartChannel provides enhanced browsing is through the selection navigator. The selection navigator is part of the adaptive framework. The selection navigator provides a hierarchal listing of a site's different areas with sections and pages. This hierarchal listing is a static approach, but, the selection navigator also provides a dynamic approach. The subscriber can provide explicit search criteria, and utilizing Structured Query Language (SQL), the selection navigator will dynamically assemble the web pages corresponding to that criteria; for example, for the query "show me the products that match my profile", web pages corresponding to that criteria will be found and

assembled for easy browsing by the selection navigator. Grouped SQL criteria can be used so that the selection navigator stores the criteria and updates the dynamically assembled web pages corresponding to the criteria when new data appears. The selection navigator is flexible and works in the back-end, or behind the scenes using back-end rules and logic.

The back-end services and rules permit matching to be done. One type of possible matching is life-event matching. For example, if a member provides information about life events such as a promotion, a marriage, or a pregnancy, SmartChannels can be triggered to provide content suited to those events. For example, the SmartChannel might have a relationship with a baby-food manufacturer, and might inform the baby-food manufacturer that some of its members are having babies. In exchange for this information, the baby-food manufacturer might provide discounts on baby food. The personal site of the pregnant members would then say: "congratulations on your up-coming baby...here is some discount on baby-food."

Therefore, SmartChannels acts as a intermediary between service providers, the SmartChannel sponsor, and the members. The service provider may be a benefits provider, such as healthcare or a 401(k) manager. SmartChannels provides assurance to the member of security and privacy to the extent desired and permission-based access to the members for the service provider. SmartChannels organizes and coordinates the content provided by the service providers based on the information in the data double provided by the members. The organized and coordinated content is presented through the members personal site. The member specifies what level of information from the data double to be released to the service providers. The greater level or more information released, the better context and identity management provided.

Through the SmartChannels, the service providers can specifically make privacy proposals to the members. For example, the baby-food manufacturer can propose free one-month supply of diapers in exchange for the members actual identity and address. The member can determine what information will be provided, what may be shared and with

what service providers it may be shared, how the information will be used, and whether the data is to be used in an identifiable way. The member can delegate to SmartChannels decisions about exactly how the member wants information shared and can tailor the member preferences so that there is a web of trust around the web site. The SmartChannel enables this customization of the member's personal site.

A SmartChannel can also facilitate exchange of information between service providers or others. In particular, service providers can specify on their personal site how to interact with them and order services from them. Therefore, anyone requesting services from them can access the service provider's channel and obtain the necessary specifications for ordering from the service provider. Those specifications can be set forth, for example, in Extensible Markup Language (XML). An example of specifications for business-to-business exchange of information is the Universal Description, Discovery and Integration (UDDI) specifications, described in the following documents, which are incorporated herein by reference: UDDI XML Structure Reference, UDDI Programmer's API Specification, UDDI Executive White Paper, and UDDI Technical White Paper, all by Ariba, Inc., International Business Machines Corporation and Microsoft Corporation, September 6, 2000.

The channels can exist for a wide variety of domains. Examples include, but are not limited to, the following categories: world; spirituality; education; play; money; health; family; and work and career. A channel for each of these categories can be organized with a node structure that, for example, further divides the category into sub-categories among the sub-nodes. The content for the channels can be dynamically changed, as well as the node structure for it. The domains can be sponsored or accessed by, for example, individuals, groups, corporations, business entities, retail establishments, or any other entity. Any combination of sponsors and channels (domains) can exist.

FIG. 1 is a diagram illustrating a navigator accessing various channels and displaying content using a browser for a personal site 10 to implement a SmartChannel. A navigator 14, implemented as a software program, operates essentially as a wrapper around a browser 12. Navigator 14 uses browser 12 to implement various channels 16 to 20. Each channel contains a collection of nodes and pages, explained below, for organizing content, and each node can be associated with a particular URL for use in retrieving content. The term "node" refers to any structured elements that can be linked together, and the term "page" refers to any collection of content for display. Using browser 12, navigator 14 accesses various content sites 18 to 22 via channels 16 to 20 for retrieving and displaying content to the user. The content sites can exist, for example, at those locations identified above, either remote from the user's machine or local to it.

FIG. 2 is a diagram illustrating a node structure for a channel such as channel 16 or 20. Each channel includes a collection of nodes having parent-child relationships for organizing the content of the channel. Each channel includes a channel node ID and URL 30, or other network address, defining an entry point to the channel. Each channel node 30 can be linked with sub-nodes 32 to 34, and each sub-node can be further linked to nodes at another level such as nodes 36 to 38 for sub-node 32. Each sub-node at a lowest level can be selectively linked, meaning it can be linked but does not necessarily need to be, with particular pages, such as pages 40 to 42 for sub-node 36. The content for the pages can be obtained using the URL for the corresponding sub-node. Pages 40 to 42 can be formatted, for example, as web pages in HyperText Markup Language (HTML) or in another format.

As shown, each node and page can be selectively linked, meaning it can be linked but does not necessarily need to be, with a particular URL or pointer for use in retrieving content. The nodes can be further associated with node identifiers for use in organizing and linking them. Each node can thus be used to retrieve and display content, in addition to organizing the content. For example, channel node 30 can be associated with a home page

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identifying the channel, and each sub-node can be associated with an introductory page identifying or explaining content in lower levels linked to the sub-nodes.

The channel can include multiple hierarchical levels having more or fewer levels than shown and having any number of nodes at a particular level. This type of structure permits flexibility in defining a dynamic organization of networked content, and each channel can be dynamically reconfigured by adding or deleting nodes. The channel thus includes both content and context. The content is the actual data or information, and the context is the manner in which it is organized with the node structure. Appendix A includes an example of nodes for a channel and the linking of nodes and pages using node identifiers and page identifiers.

Appendix A also illustrates the ability to perform searching, sorting, and other similar functions on the list of nodes. The first page of Appendix A illustrates sections to enter a column value, a comparison such as a boolean operation, and a value. Selection of the filter button can trigger a program to electronically search or sort through the nodes satisfying the information entered in the column, comparison, and value sections. Therefore, a user can search or sort the list for nodes relating to a particular topic or type of content. Other types of searching and sorting can be performed on the list of nodes, using conventional programs for electronically searching and sorting information, to manage the list of nodes.

Machine for Executing the Navigator

FIG. 3 is a diagram of an exemplary machine 50 for using the navigator. Machine 50 can include a connection with a network 59 such as the Internet, a wide-area network, or a local area network. Machine 50 can retrieve remote content for a channel via network 59 from, for example, web sites, remote servers, remote storage devices, or other machines connected to network 59. Content can also be retrieved locally for a channel. Machine 50 typically includes a memory 51, a secondary storage device 58, a processor 57, an input device 54, a display device 55, and an output device 56.

Memory 51 may include random access memory (RAM) or similar types of memory, and it may store one or more applications 52 and a web browser 53 for execution by processor 57. Applications 52 may correspond with software modules to perform processing for embodiments of the invention. Examples of web browsers include the Internet Explorer program by Microsoft Corp. and the Netscape Navigator program by Netscape Communications, Inc. Web browsers, also referred to as browsers, include any program for retrieving content locally or from a network and displaying it in a structured format such as pages.

Secondary storage device 58 may include a hard disk drive, floppy disk drive, CD-ROM drive, or other types of non-volatile data storage. Processor 57 may execute applications or programs stored in memory 51 or secondary storage 58, or received from the Internet or other network 59. Input device 54 may include any device for entering information into machine 50, such as a keyboard, key pad, cursor-control device, touch-screen (possibly with a stylus), or microphone. Display device 55 may include any type of device for presenting visual information such as, for example, a computer monitor, flat-screen display, or display panel. Output device 56 may include any type of device for presenting a hard copy of information, such as a printer, and other types of output devices include speakers or any device for providing information in audio form. Machine 50 can possibly include multiple input devices, output devices, and display devices.

Example of machines for implementing machine 50 to execute the navigator include the following: personal computers, laptop computers, notebook computers, palm top computers, network computers, Internet appliances, personal digital assistants (PDAs), or any processor-controlled device capable of executing a browser.

Although machine 50 is depicted with various components, one skilled in the art will appreciate that this machine can contain additional or different components. In addition, although aspects of an implementation consistent with the present invention are described as being stored in memory, one skilled in the art will appreciate that these aspects can also be

stored on or read from other types of computer program products or computer-readable media, such as secondary storage devices, including hard disks, floppy disks, or CD-ROM; a carrier wave from the Internet or other network; or other forms of RAM or read-only memory (ROM). The computer-readable media may include instructions for controlling machine 50 to perform a particular method.

Navigator Processing

Navigator 12 is typically implemented as a software module wrapper, such as application 52, around browser 14 for intercepting and processing communications to and from the browser. FIG. 4 is a flow chart of an administration routine 60 implemented by navigator 12. Routine 60 is used to perform various administrative functions such as creating or sponsoring a channel, deleting a channel, or modifying a channel. In routine 60, the navigator determines if a user wants to create a channel (step 62); if so, the navigator permits the user to enter an identification of a channel (step 64) and identification of subnodes (step 66). The information entered for the nodes can include, for example, the information shown in Appendix A such as node identifiers, page identifiers, and URLs for the nodes and pages. The navigator links the nodes according to a user-specified or default structure and stores the channel (step 68).

The navigator determines if the user wants to delete a channel (step 70). If the user wants to delete a channel, the navigator can determine if the user is authorized (step 72). For example, a user can be authorized to delete only those channels that the user has created. If the user is authorized, the navigator receives an identification of a channel (step 74) and removes the nodes for the channel (step 76).

The navigator also determines if the user wants to modify a channel (step 78). If so, the navigator can determine if the user is authorized to modify the channel (step 79). For example, the user can be authorized to modify only those channels that the user has created. If the user is authorized, the navigator receives an identification of a channel (step 80) and a modification of the nodes for the channel (step 82). The modification can include any

change to the channel such as the user adding nodes or sub-nodes, deleting nodes, changing the hierarchical relationships between nodes, or adding or changing URLs for the nodes or pages. The user can enter the exemplary information shown in Appendix A for the modifications. Based upon the information entered for modification, the navigator reconfigures the nodes for the channel (step 84).

FIGS. 5a and 5b is a flow chart of a navigator routine 90, implemented by navigator 12 and permitting a user to access content through channels and perform browser functions. In routine 90, the navigator receives log in information from a user (step 92) and determines if the user is authorized (step 94). The navigator can require that a user enter a user identifier and password, and it can maintain a database of user identifications and corresponding passwords to authenticate users. If the user is authorized, the navigator retrieves the user's channel and displays an identification of nodes (step 96). The navigator can link the user identification with the user's channel in order to retrieve the channel based upon the user's log in information. The user's channel includes an identification of the nodes and linking between them as illustrated in FIG. 2.

The navigator can thus define a separate collection and linking of nodes for each channel, and assign users to channels. Since each node can contain a URL or pointer to content, the content need only be stored in one location, for example, and the navigator can dynamically retrieve and build a particular channel based upon its node structure and specified URLs. Also, the content can be updated at its stored location, and the navigator can therefore retrieve the most current content using the URLs to locate it. Each user can also define or sponsor their own channel and, by determining which nodes to include in their channel, the users can in effect limit access to only the content referenced by those nodes. If a user has access to a particular node, then the user also has access to all sub-nodes in this example.

Table 1 illustrates how the navigator can maintain a database associating a user's identifiers and passwords, or other unique authentication information, (the log in information)

with the user's authorized channels for displaying an identification of those channels. As indicated above, using data doubles the user can have multiple on-line identities each linked with potentially a different collection of channels.

user identity	password	user's authorized channels	
identifier 1	password 1	channel 1	
		channel 2	
		channel N	
identifier N	password N	channel 1a	
		channel 2a	
		channel Na	

FIG. 6 is a screen 130 illustrating display of a user's channels for step 96. Screen 130 can be formatted, for example, in HTML for display as a web page by the browser on display device 55. Screen 130 includes a navigator section 132 for displaying an identification of the nodes for the user's channel. The user's personal site is represented by a node 133 for the user's channel. This example includes other channels such as a node 134 for a BTI process, which can represent a channel sponsored by the user's employer for providing employment-related information to the user. BTI process node 134 includes subnodes as represented by the indentation such as an information gathering node 136. In the displayed structure of a channel, the triangle symbols represent nodes and the square symbols represent pages. Other types of symbols can be used. Screen 130 includes a content section 140 for displaying content in pages as selected in navigator section 132. It

 also includes a toolbar 142 for identifying context-sensitive actions and conventional browser-type functions.

After displaying screen 130 for the user's channels, the navigator detects if the user selects a node or page in navigator section 132 (step 98). The user can make the selection by using, for example, a cursor-control device to "click on" the symbol for the node or page. The navigator determines if the selected node is a selector node, used for searching within the channel (step 99). If the user selected a selected node, the navigator displays a search page (step 101) and receives a search query entered through the page (step 103). The navigator searches within the content of the channel for the search query (step 105) and displays results of the searching (step 107). Any type of search engine can be used for searching the channel content. This feature provides a user with a method of performing a focused search, as the search occurs within the structured content of the channel.

For other selected nodes, the navigator expands the list in navigator section 132 to display the sub-nodes (step 100). As further sub-nodes are selected, the navigator continues to expand the list to show the channel structure. For a selected page within navigator section 132, the navigator retrieves content using a URL associated with the node (step 102) and displays it in content section 140 (step 104). The information can be retrieved over the Internet using the URL, from another type of network, or locally on the user's machine. The URL represents a pointer to the content, which can be modified or updated. The navigator can thus obtain the most current content by retrieving it upon selection of a page. Instead of URLs, other types of pointers or identifiers can be used to access or identify a location of content.

The navigator determines if the user de-selects a node (step 106). A user deselects a node by, for example, using a cursor-control device to "click on" a node that has been expanded. Upon detecting the de-selection, the navigator contracts the displayed list of sub-nodes for that node (step 108).

The navigator determines if the user selects a browser function (step 110). The user can select a browser function by, for example, using a cursor-control device to "click on" one of the symbols in toolbar 142. The browser functions can include conventional browser functions such as a back command, forward command, refresh command, home command, a list of "favorite" sites, or a search command. Upon selection of a browser command, the navigator passes the command along to the browser for it to execute the command (step 112).

The user can possibly attempt to access other channels (step 114). For example, the user can enter new log in or user identification information. If the user attempts to access other channels, the navigator determines if the user is authorized (step 116) and, if authorized, the navigator retrieves the new channel information and displays nodes for it (step 118). The navigator can continue to execute functions based upon commands entered by the user until the user logs off (step 120).

FIG. 7 illustrates in screen 130 node identifiers associated with the nodes for selection. This screen can be displayed, for example, to a database administrator or other person authorized to view it. As further shown in Appendix A, the node identifiers are used to create the links between nodes and sub-nodes, and between nodes and pages, for configuring channels. The nodes in this example include site area (sa) nodes such as node 150; section (sc) nodes such as node 152; and page (pg) nodes such as node 154. Other types of nodes include user group (ug) nodes and selector (mg) nodes, as identified in Appendix A. Site area and section nodes identify context, page nodes identify content, and user group nodes identify particular user groups. Selector nodes, as explained above, are used for searching within a channel. These labels for the nodes are one example of classifying nodes, and different labels and classifications can be used.

Each channel typically has its own database schema, and FIGS. 8-26 are diagrams of an exemplary database schema for implementing a channel. This schema can be

repeated for additional channels. In FIGS. 8-26, FIG. 8 illustrates how FIGS. 9-26 fit together in order to collectively illustrate the exemplary database schema.

While the present invention has been described in connection with an exemplary embodiment, it will be understood that many modifications will be readily apparent to those skilled in the art, and this application is intended to cover any adaptations or variations thereof. For example, different navigator processing, labels for the database schema and routines, and network addresses, may be used without departing from the scope of the invention. This invention should be limited only by the claims and equivalents thereof.

CLAIMS

 A method for organizing content in a channel communicating over a network with content sites, comprising:

specifying a channel node having a network address;

specifying sub-nodes each selectively having a pointer to particular content;

linking the channel node with the sub-nodes;

selectively specifying pages associated with the sub-nodes;

linking the pages with the sub-nodes; and

displaying a representation of the channel node, the sub-nodes, and the linking of the nodes and the pages.

- The method of claim 1 wherein the specifying the sub-nodes step includes specifying
 the pointers identifying a location of local content, content on an intranet, or content on a
 web site.
- The method of claim 1 wherein the specifying the channel node step includes specifying a uniform resource locator as the network address.
- The method of claim 1 wherein the specifying the sub-nodes step includes specifying a uniform resource locator as the pointer.
- The method of claim 1, further including displaying the content in the pages upon detection of selection of one of the pages.
- The method of claim 1 wherein the displaying step includes displaying symbols representing the channel node, the sub-nodes, and the pages.
- The method of claim 1, further including reconfiguring the sub-nodes.

- The method of claim 1, further including displaying a toolbar identifying browser functions.
- The method of claim 8, further including executing the browser functions upon detecting a selection of the toolbar.
- 10. The method of claim 1 wherein the linking the channel node step includes associating the channel node and the sub-nodes with node identifiers.
- 11. The method of claim 1 wherein the linking the pages step includes associating the sub-nodes with node identifiers and associating the pages with page identifiers.
- 12. The method of claim 1, further including: receiving a search query; searching the content of the channel based upon the query; and displaying results of the searching.
- 13. A structure for electronically organizing content in a channel communicating over a network with content sites, comprising:

a channel node having a network address; sub-nodes each selectively having a pointer to particular content; links between the channel node and the sub-nodes; pages associated with the sub-nodes; and links between the pages and the sub-nodes.

14. The structure of claim 13 wherein the pointers identify a location of local content, content on an intranet, or content on a web site.

- The structure of claim 13 wherein the network address includes a uniform resource locator.
- The structure of claim 13 wherein the pointer includes a uniform resource locator.
- 17. The structure of claim 13, further including symbols representing the channel node, the sub-nodes, and the pages for displaying a representation of the structure.
- 18. The structure of claim 13 wherein the links between the channel node and the subnodes are reconfigurable.
- 19. The structure of claim 13, further including node identifiers associated with the channel node and the sub-nodes for specifying the links between the channel node and the sub-nodes.
- 20. The structure of claim 13, further including node identifiers associated with the subnodes and page identifiers associated with the pages for specifying the links between the sub-nodes and the pages.
- 21. The structure of claim 13, further including a selector node for receiving a query for use in searching the content of the channel.
- 22. An apparatus for organizing content in a channel communicating over a network with content sites, comprising:
 - a browser; and
- a navigator program for controlling communications to and from the browser, the navigator program operating to:

specify a channel node having a network address;

specify sub-nodes each selectively having a pointer to particular content;

link the channel node with the sub-nodes:

selectively specify pages associated with the sub-nodes;

link the pages with the sub-nodes; and

display a representation of the channel node, the sub-nodes, and the linking of the nodes and the pages.

- 23. The apparatus of claim 22 wherein the navigator program specifies the pointers identifying a location of local content, content on an intranet, or content on a web site.
- 24. The apparatus of claim 22 wherein the navigator program specifies a uniform resource locator as the network address.
- 25. The apparatus of claim 22 wherein the navigator program specifies a uniform resource locator as the pointer.
- 26. The apparatus of claim 22 wherein the navigator program displays the content in the pages upon detection of selection of one of the pages.
- 27. The apparatus of claim 22 wherein the navigator program displays symbols representing the channel node, the sub-nodes, and the pages.
- The apparatus of claim 22 wherein the navigator program reconfigures the subnodes.
- The apparatus of claim 22 wherein the navigator program displays a toolbar identifying browser functions.

- 30. The apparatus of claim 29 wherein the navigator program uses the browser to execute the browser functions upon detecting a selection of the toolbar.
- 31. The apparatus of claim 22 wherein the navigator program associates the channel node and the sub-nodes with node identifiers.
- 32. The apparatus of claim 22 wherein the navigator program associates the sub-nodes with node identifiers and associates the pages with page identifiers.
- 33. The apparatus of claim 22 wherein the navigator program further operates to: receive a search query; search the content of the channel based upon the query; and display results of the searching.
- 34. A method of organizing content in a channel communicating over a network with content sites, comprising:

specifying content; and

specifying a context for the content, the context identifying an hierarchical, reconfigurable structure comprising a node selectively linked with sub-nodes and pages selectively linked with the sub-nodes, the pages containing portions of the content, and at least a portion of the nodes and the sub-nodes having pointers to portions of the content.

- 35. A system for providing enhanced web-browsing, comprising: a data double, comprising data that identifies a member; service providers that provide service provider content including services and information:
 - a personal site that the member uses to access the service provider content; and

an engine that processes the data double and the service provider content to provide relevant and meaningful content to the member through the personal site.

36. The system of claim 35, wherein the engine comprises:

identity management that manages the data double to establish a personal profile, member preferences, member permissions, and activity data for the member; and

context management that organizes service provider content, coordinates browsing processes, and provides an adaptive framework.

37. The system of claim 35, wherein the personal site comprises:

smart pages, comprising:

a log in page;

a home page; and

inside pages; and

an adoptive framework, comprising:

selection navigators; and

a toolbar.

38. The system of claim 37, wherein the selection navigators provide direct page searching comprising:

a fixed hierarchal structure listing a web site's areas with sections and pages;

an explicit SQL criteria search, whereby the selection navigators gather and dynamically assemble web sites meeting the criteria; and

a group SQL criteria, wherein the selection navigators store the criteria, gather and dynamically assemble web sites meeting the criteria and update the web sites when new content is found meeting the criteria.

- A context-sensitive personal sites and membership channel system, comprising:
 a personal-site application software that provides access to a personal site;
- an identity and context server and database, operatively connected to the personalsite application software, that consolidates, indexes, standardizes, manages, and distributes pages and data through the personal site; and

structured and unstructured data and application sources.

- 40. An adaptive framework for providing services in a context-sensitive manner, comprising:
 - a selection navigator that provides direct page searching;
 - a smart page; and
 - a toolbar.
- 41. A product platform architecture, comprising:
 - add-in modules that create derivative applications;
 - a smartchannel engine;
 - an operating system; and
 - Internet services.

ABSTRACT

A personal site for organizing network content. The site includes one or more channels, and each channel is associated with sub-nodes. The channel is dynamically linked with the sub-nodes, and each sub-node can have one or more associated pages. The sub-nodes and the pages can include pointers to content such as uniform resource locators.

Upon a user logging in, the site dynamically retrieves and builds a representation of the organized content for display. A navigator program operates as a wrapper around a browser to manage the site and build the channels.

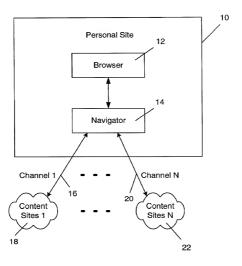


Fig. 1

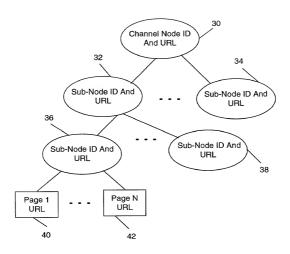


Fig. 2

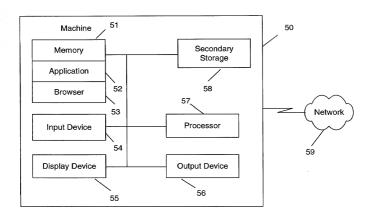


Fig. 3

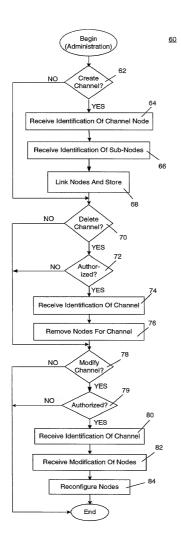


Fig. 4

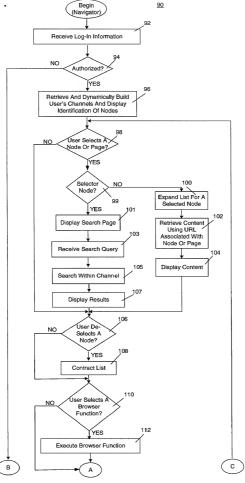


Fig. 5a

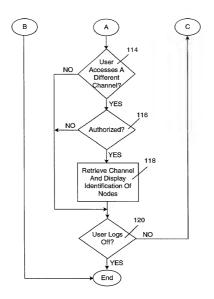


Fig. 5b

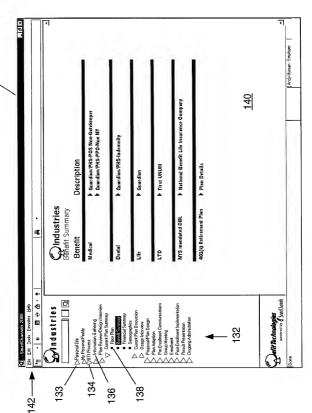


Fig. 6

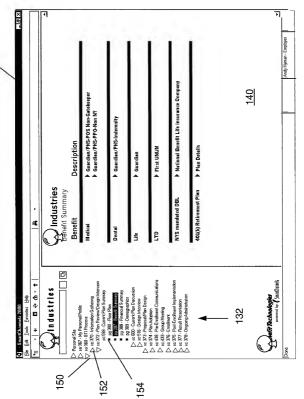


Fig. 7

		Fig. 25	Fig. 26		
Fig. 22	Fig. 23	Z C	19.24		Fig. 8
i c	n- 		Fig. 20	Fig. 21	
Fig. 13	Fig. 14	Fig. 15	Fig. 16	Fig. 17	Fig. 18
Fig. 9	Fig. 10	Fig. 11	Fig. 12		

SmartChannels.Net Physical Database Schema - 9/21/00 - version 2.0

Table Types

Abbreviation	Description	Purpose
PE	Primary Entities	Tables containing primary attributes (fields) of a primary business entity or object
SE	Singular Supplemental Attributes Table, applying to Every primary entity record	Tables containing supplemental attributes (fields) of a primary business entity or object, that has a one to one relationship with that primary business entity or object. Attributes of this type of table apply to every related primary entity record. In other words, every primary entity record has these supplemental attributes as well.
SS	Singular Supplemental Attributes Table, applying to Some or Specific types of primary entity records	Tables containing supplemental attributes (fields) of a primary business entity or object, that has a one to one relationship with that primary business entity or object. Attributes of this type of table apply to specific types of related primary entity records, usually based on a field value within the primary entity record or may juist apply to some primary entities. In other words, not every primary entity record has these supplemental attributes.
МЕ	Multiple Supplemental Attributes Table, applying to Every primary entity record	Tables containing supplemental attributes (fields) of a primary business entity or object, that has a many to one relationship with that primary business entity or object. Attributes of this type of table apply to every related primary entity record. In other words, every lor primary entity record has these supplemental attributes as well.
MS	Multiple Supplemental Attributes Table, applying to Some or Specific types of primary entity records	Tables containing supplemental attributes (fields) of a primary business entity or object, that has a relationship with that primary business entity or object. Attributes of this type of table may apply to specific types primary entity record, usually based on a field value within the primary entity record or may just apply to some primary entities. In other words, not every primary entity record has these supplemental attributes.
XL	Cross (X) Link Table	Tables which define a many to many relationship, usually between primary business entities or objects
LK	Lookup Table	Tables that describe a code or abbreviation used to represent an attribute in any other type of table.
S T	System Table	Tables developed by SmartChannels.Net containing attributes (fields) which can drive system objects in the application
CL	Core Logic System Table	Tables developed by Core Logic containing attributes (fields) which can drive system objects in the application

Data Type Abbreviations

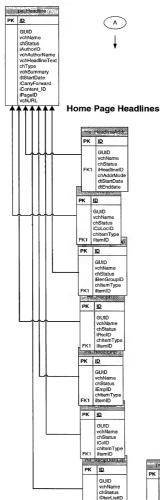
Abbreviation	MS-SQL Server	7.0 DataType
b	binary[(n)]	
vb	varbinary[(n)]	
ch	char[(n)]	
vch	varchar[(n)]	
dt	datetime	
ts	Timestamp	
sdt	smalldatetime	
d	decimal[(p[, s])] numeric[(p[, s])]	Fixed Decimal
u	float[(n)] real	Floating Point Decimal
i	Int	Integer
si	smallint	Small Integer
ti	tinyint	Tiny Integer
m	money	Money
sm	smallmoney	Small Money
bt	bit	Bit
ud	user-defined data	types

Fig. 10

General Use Abbreviations

Abbreviatio	
n	<u>Description</u>
-	
Addr	Address
Admin	Administrator
Amt	Amount
Arch	Archive
Ast	Assistance
Ava	Average
Bdcst	Broadcast
Ben	Benefit
Benf	Beneficiary
BOM	Beginning of Month
BOY	Beginning of Year
Cat	Category
Chg & Chgs	Change & Changes
Co & Crigs	Company
Comp	Compensation
Coord	Coordination
CoPA	Company Plan
Ctrb	Contribution
Cvg	Coverage
Db	Database
Dct	Discount
Dep	Dependent
Desc	Description
Dest	Destination
Desi	Detail
Dis	Discussion
DOM	Day of Month
DOY	Day of Year
	Day & Days
Dy & Dys	Effective
Elect	Election
Elig	Eligible
Eligy	Eligibility
Emp	Employee
EOM	End of Month
EOY	End of Year
Evt	Event
	Export
Exp	Fulfillment
Fmt	Format
	Funding
Fndg	Frequency
Freq	
	1

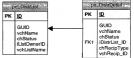
Abbreviation	<u>Description</u>
Imp	Import
Init	Initial
Ins	Insurance
Loc	Location
LTD	Life To Date
Max	Maximum
Mbr	Member
Mgmt	Management
Mar	Manager
Min	Minimum
Mkt	Market
MktP	Marketplace
Mo & Mos	Month & Months
Mthd	Method
No	Number
OE	Open Enrollment
Ofc	Office
Ofg	Offering
Ofr	Offer
Org	Organization
Pct	Percentage
Pg	Page
Pkg	Package
Ping	Planning
Pmt	Payment
Pref	Preferred
Prim	Primary
PTO	Paid Time Off
Recip	Recipient
Rea	Request
Rsc	Resource
Sched	Schedule
Sec	Secondary
SKU	Stock Keeping Unit
Src	Source
Stmt	Statement
Subi	Subject
Subs	Subsequent
Svc	Service
Svg	Saving
Tech	Technology
Term	Termination
TPA	Third Party Administrator
Ven	Vendor
Vstg	Vestina
Yr & Yrs	Year & Years
YTD	Year To Date
טוו	Toal To Date

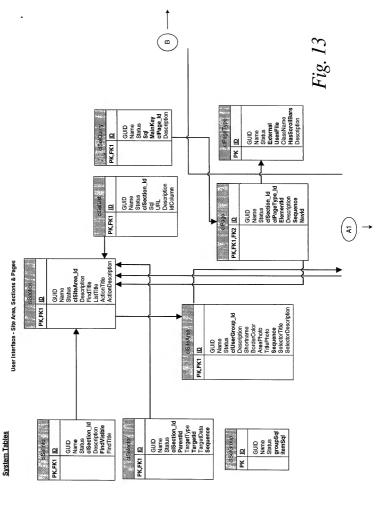


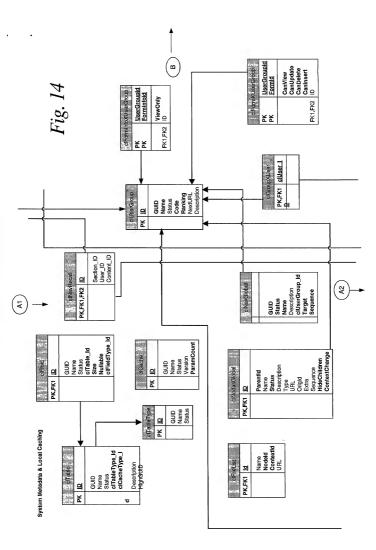
chitemType

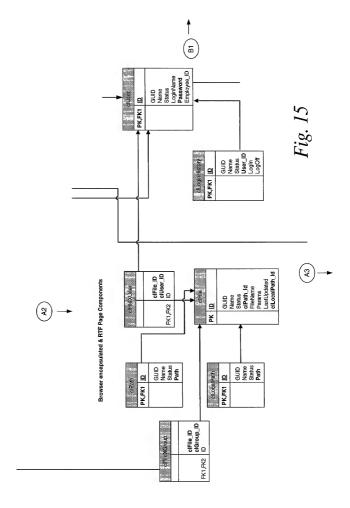
iltemID

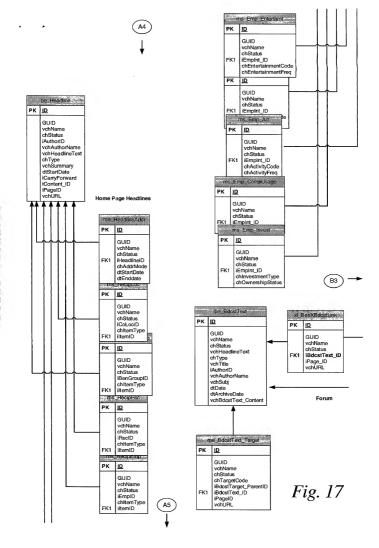
Fig. 12











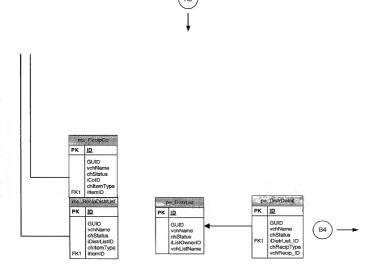
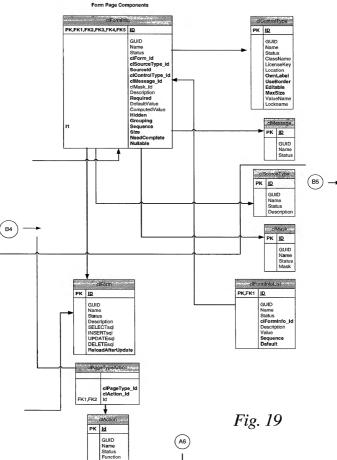


Fig. 18



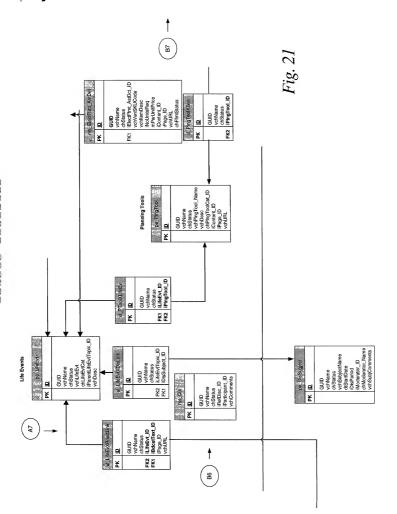
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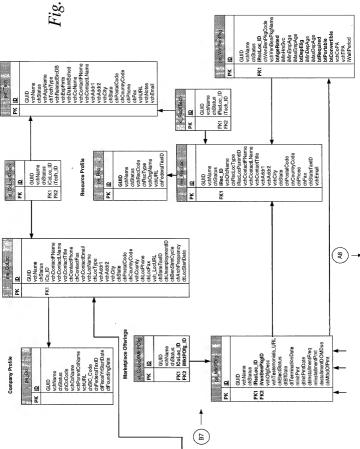
FK2 iMktplaceOfg_ID FK1 iLifeEvt_ID

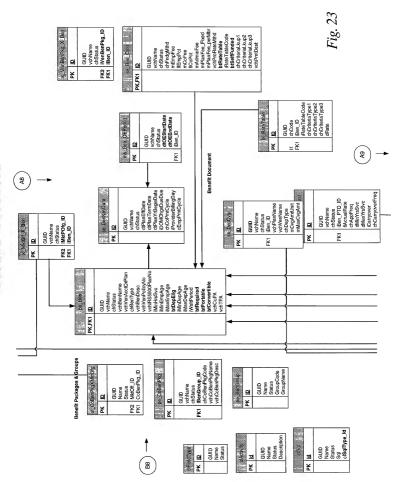
Elections

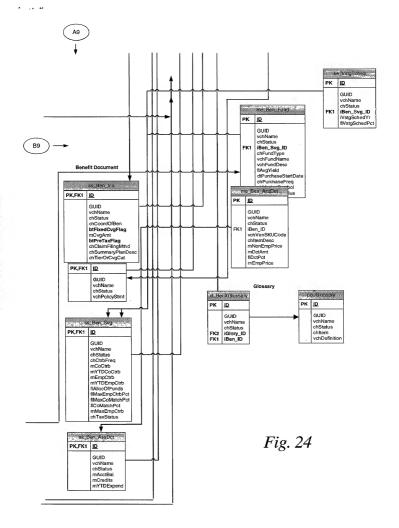
Fulfillment

ms_ElectFfmt_Man PK ID









. ...

11

11

Lookup Tables lk_LookupTables lk_LocType lk_ComprUseLoc lk TaxStatus PK ID PK ID PK ID PK ID GUID GUID GUID GUID chCode [1 chCode 11 chCode chCode vchDesc vchDesc vchDesc vchDesc lk_PurchaseIntent IK_Bo IK_RecipType Ik Entertainment PΚ ID PK ID PK ID PK ID GUID GUID GUID GUID chCode 11 chCode chCode chCode vchDesc vchDesc vchDesc vchDesc Ik_ReqType lk_FfmtStatus lk_PurchaseOwnership lk_ComprUseFreq PK ID PK ID PK ID PK ΙD GUID GUID GUID GUID chCode 11 chCode chCode chCode vchDesc vchDesc vchDesc vchDesc lk_Publication lk_InvestmentType ik_ElectStatus lk JobTitleCat PK ID PK ID PK ID PK ID GUID GUID GUID GUID chCode 11 chCode chCode chCode vchDesc vchDesc vchDesc vchDesc lk_BonusCommCalc Jk_PmtPlan ік ДерТуре lk State PK ID PK ΙD PK ID PK ID GUID GUID GUID GUID chCode 11 chCode chCode chCode vchDesc vchDesc vchDesc vchDesc lk_HeadlineType lk Country lk_Smoker PK ID PK ΙD PΚ ID PK ID GUID GUID GUID GUID chCode 11 chCode 11 11 chCode chCode vchDesc vchDesc vchDesc vchDesc lk TierCvgCat lk Gender lk_Activity lk_DeptCode PK ID PK ID PK ID PK ID GUID GUID GUID GUID chCode chCode 11 chCode chCode vchDesc vchDesc vchDesc vchDesc lk_MthdOfPmt lk_RscType lk_ComprUse Ik_BdcstType PK 1D PK ΙD PK ID PK ΙD GUID GUID GUID GUID chCode chCode 11 chCode chCode vchDesc vchDesc vchDesc vchDesc

A10

Fig. 25





	un	ve	stOwnership					
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11		cł	UID nCode chDesc					
	P	96	vcBranch ID					
	11		GUID chCode vchDesc					
	lk	CI	mFileMthd					
Ī	Pł	۲	ID					
	11		GUID chCode vchDesc					
	ij	CF	EndgMthd					
	P	K	ID					
	11		GUID chCode vchDesc					
	1	Ç,	AddrMode					
	P	K	ID					
	11		GUID chCode vchDesc					

11	GUID chCode vchDesc
lk_	TechType
PK	ID
11	GUID chCode vchDesc
Ιķ	DivCode
PK	ID
11	GUID chCode vchDesc
lk_F	RateCriteria
PK	ID
11	GUID chCode vchDesc
k_A	djSenRehire
PΚ	ID
1	GUID chCode vchDesc
_	

lk_ReqLevel

PK ID

IK E	mpimtStatus
11	GUID chCode vchDesc
lk.	Frequency ID
11	GUID chCode vchDesc
IK.N	faritalStatus ID
11	GUID chCode vchDesc
999999	OnlineSvc
PK	GUID chCode vchDesc

Fig. 26

ووهره روماد	沙西一"人名英格兰 人名英格
Y	K

	* Apply filter	ZLL	Records per page: ALL 💌 🤣 60
/alue:	1	Filter all records in which the field above starts with:	Records per pa
	F	Filter all records in which the field above starts with: BICIDEFERHIDIKILIMINOPIQIRISTIU	Customize view
Comparison:	1	Filter all record	70 6
::		#/misc	Add new record
Column(s)			A Ado

Found a total of 612 record(s). Search took 0.1 seconds.

	Status Description Type URL	в'n	бn	6n	6n	<u> </u>	Вn	Sa	sa	ss	es
	Status	0	0	0	0	0	0	0	0	0	0
# Edit record(s)	Name	Manager	Employee	Account Executive	Employer	Old Expert Group	Plan Manager	Company & Employee Profiles	Resources	Accounts	Statements &
	Parentld	0	0	0	0	0	0	-	τ-	-	_
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this to the transfer of the ti	SS	sa	Sa	sa	Sa	sa	sa	Sa	Sa	sa	Sa	SC	SC 0	SC	SC	SC	SC	sc	sc
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Payments	Life Events & Planning Tools	Marketplace	Forum	Help	My Personal Profile	My Support Resources	My Plans	My Personal Profile	My Support Resources	My Cases	Company Profile	Employee Profile	Resource Profile	Benefits Documents	Benefits Statements	Payment Records	Payment Reports	Life Events
	4	4	4	4	4	c)	2	2	9	9	9	7	7	œ	6	6	7	-	12
	59	30	31	32	33	34	35	36	37	38	39	40	4	42	43	4	45	46	47

					http://smartchannels.corelogicsoftware.com/BTI/ephome.htm	http://www.dorseylaw.com	http://smartchannels.corelogicsoftware.com/Archive/Prudential/Development/my_		http://smartchannels.corelogicsoftware.com/Archive/Prudential/Html/ss_retiremen				
SC	SC	SC	SC	SC	SC	SC	SC	sc	SC	sc	S _C	SC	Sc
				Information About My Health	Information About Myself	Information About My Personal Interests	Information About My Finances	Information About Privacy	Information About My Retirement Plans	Information About My Benefits	Information About Health Care	Information About Assistance Discounts	Service & health care providers, facilities, vendors, and resources
0	0	0	0	0	0	0	0	0	0	0	0	0	0
Planning Tools	Offerings	Account	Articles	Health Profile	Employee Profile	Personal Interests	My Paycheck	Trust Relationships	Retirement Plans	Insurance Plans	Health Care	Assistance and Discounts	Resource Profiles
12	13	13	4	15	15	15	15	15	16	16	16	16	17
48	49	20	21	52	23	22	26	29	99	61	62	63	64

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Information on Life Events	Information on Planning Tools	Marketplace Offerings	My Marketplace Account	Articles Forum	Forum Discussion Topics	Information About My Finances	Information About Myself	Information About My Computer	Information About Privacy	Resource Profile	Trust Relationship	Information Gathering	Design Interview	Plan Adoption	Plan Notebook	Plan Summary and Review	Plan Design
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Life Events	Planning Tools	Offerings	My Shopping	Articles	Discussion Topics	My Paycheck	Employee Profile	Computer Profile	Trust Relationships	Resource Profile	Trust Relationship	Information Gathering	Design Interview	Plan Adoption	Plan Notebook	Plan Summary and Review	Plan Design
8	8	19	19	20	20	21	21	21	21	22	22	23	23	23	23	23	23
92	99	29	89	69	20	7	72	73	74	75	9/	1	78	79	80	8	82

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Plan Implementation	Plan Results	Company Profile	BTI Process	Concept Presentation	Profile of the Company	Profile of the Employees	Profile of Resources	Plan Set Up	Plan Summary	Plan Review	Design Interview	Plan Design	Plan Implementation	Plan Notebook	Plan Results	Statements	Reports	Payment Records
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plan Implementation	Plan Results	Company Profile	BTI Process	Concept Presentation	Company Profile	Employee Profile	Resource Profile	Plan Set Up	Plan Summary	Plan Review	Design Interview	Plan Design	Plan Implementation	Plan Notebook	Plan Results	Statements	Reports	Payment Records
83 23	84 23	85 24	86 24	87 24	88 25	89 25	90 26	91 27	92 27	93 27	94 27	95 27	96 27	97 27	98 27	99 28	100 28	101 29

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Payment Reports					Profile of Resources	Information Gathering	Design Interview sc	Plan Notebook	Plan Review	Plan Implementation	Resource Profile	Information Gathering	Plan Adoption	Plan Summary and Review	Plan Implementation	Key Plan Online Information	Contact the Payroll Department	Overview
0	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0	-
Payment Reports	Life Events	Planning Tools	Offerings	Account	Resource Profile 0	Information Gathering	Design Interview 0	Plan Notebook	Plan Review	Plan Implementation	Resource Profile	Information Gathering	Plan Adoption	Plan Summary and Review	Plan Implementation	Key Plan Online Information	Contact Payroll	Overview
102 29	103 30	104 30	105 31	106 31	109 35	111 36	113 36	115 36	117 36	119 36	121 38	123 39	125 39	127 39	129 39	294 97	134 56	136 60
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		General Information		Guided Tours	Trust Relationship	Related Plans	Plan Adoption	Plan Summary	Plan Design	Plan Results	Trust Relationship	Design Interview	Plan Notebook	Plan Design	Plan Results	My Last Pay Statement		
-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-
Plan Description	Planning Tools	General Information	Articles	Guided Tours	Trust Relationship	Related Plans	Plan Adoption	Plan Summary	Plan Design	Plan Results	Trust Relationship	Design Interview	Plan Notebook	Plan Design	Plan Results	Last Pay Statement	Integrated Statement	Account Information
9	09	53	32	33	32	36	36	36	36	36	38	39	38	39	38	26	09	137 60
138 60	140	142	107	108	110	112	<u>+</u>	116	118	120	122	124	126	128	130	133	135	137

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Computing	Shopping and Investing	Publications	Recreation	Log In	Health Services		Overview						Overview	Related Benefit Plans	Related Offerings	Related Life Events		
0	0	0	0	0	0	0	0	0	0 ر	0	0	0	0	0	0	0	0	0
Computing	Shopping and Investing	Publications	Recreation	Log In	Health Services	Integrated Statement	Benefits Overview	Account Information	Plan Description	Support Services	Planning Tools	Educational Materials	Overview	Related Benefit Plans	Related Offerings	Related Life Events	Autos	Homes
157 55	158 55	159 55	160 55	161 52	162 52	163 62	164 62	165 62	166 62	167 62	168 62	169 62	170 65	171 65	172 65	173 65	174 66	175 66

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Benefits Key Dates	Benefits Life Events	Benefits Activity Log	Benefits Statement	Payment Invoices	Payment Instructions	Payment by Vendor	Payment Resources	Payment By Employees	Payment Activity Log	Payment By Cost Center	Payment Reports	General Information		Net Worth Statement	Financial Plans	Education Funding	Retirement Planning	Stock Option Analysis
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Key Dates	Life Events	Activity Log	Statements	Invoices	Instructions	By Vendor	Resources	By Employees	Activity Log	By Cost Center	Report	General Information	Adhoc Reporting 0	Net Worth Statement	Financial Plans	Education Funding	Retirement Planning	Stock Option Analysis
213 43	214 43	215 43	216 44	217 45	218 45	219 45	220 45	221 45	222 45	223 45	224 46	225 54	593 589	228 57	229 57	230 57	231 57	232 57

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Insurance	Estate Planning	Overview	Personal Information	Contact Information	Unique Identifiers and Passwords	Transaction Data	Activity Data	Computer Information	General Company Information	Company Locations	Demographic Summary	Employee Census	Financial Spreadsheet	Company Resources	Company Reminders	Company Elections	Company Benefit Groups
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Insurance	Estate Planning	Overview	Personal Information	Contact Information	Unique Identifiers and Passwords	Transaction Data	Activity Data	Computer Information	General Information	Locations	Demographic Summary	Employee Census	Financial Spreadsheet	Resources	Reminders	Elections	Benefit Groups
22	22	29	29	29	29	29	29	29	88	88	88	88	88	88	88	88	88
233	234	235	236	237	238	239	240	241	244	245	246	247	248	249	250	251	252

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bd	bd	bd	bd	bd	рд	рĝ	bd	bd	bd	bd	bd	bd	Вd	bd	bd	bd
Company Technology	Company Activity Log	General Employee Information	Employment Information	Employee Compensation	Employee Election Information	Employee Dependents	Employee Elections	Employment Reminders	Employee Activity Log	Plan Information Form	Employee Census *	Plan Comparison	Summary Employee Survey	Graphical Layout	Benefits Summary	Financial Spreadsheet
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Technology	Activity Log	General Information	Employment	Compensation	Elections	Dependent	Settings	Reminders	Activity Log	Plan Information Form	Employee Census *	Plan Comparison	Summary Employee Survey	Graphical Layout	Benefits Summary	Financial Spreadsheet
253 88	254 88	255 89	256 89	257 89	258 89	259 89	260 89	261 89	262 89	265 91	266 91	267 98	268 98	269 92	270 92	271 92

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Group Meeting	Benefit Document	Benefit Plan Information Form	Census Form	Authorization	Employer Information	Company Profiles	Plan Profiles	Plan Observations	Plan Considerations	Corporate Philosophy	Plan Design Questions	Available Products	Employer Objectives	Final Plan Design	Broker of Record	Product Carrier Sheets	Administration Data Sheet
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Group Meeting	Benefit Document	Benefit Pian Information Form	Census Form	Authorization	Employer Information	Company Profiles	Plan Profiles	Plan Observations	Plan Considerations	Corporate Philosophy	Plan Design Questions	Available Products	Employer Objectives	Final Plan Desígn	Broker of Record	Product Carrier Sheets	Administration Data Sheet
293 96	295 97	296 111	297 111	298 111	299 111	300 112	301 112	302 112	303 112	304 113	305 113	306 113	307 113	308 114	309 114	310 114	311 114

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Communications Program	Adoption Agreement	Key Plan Information	Graphical Layout	Benefits Summary	Financial Spreadsheet	Demographics	Preliminary Proposal	Plan Solution	Plan Products	Plan Features	Final Plan Design	Activity Log	Implementation Plan	Enrollment Forms	Confirmation Forms	Payroll Report	Plan Comparison	
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Communications Program	Adoption Agreement	Key Plan Information	Graphical Layout	Benefits Summary	Financial Spreadsheet	Demographics	Preliminary Proposal	Plan Solution	Plan Products	Plan Features	Final Plan Design	Activity Log	Implementation Plan	Enrollment Forms	Confirmation Forms	Payroll Report	Plan Comparison	
114	114	115	116	116	116	116	118	118	118	118	118	118	119	119	119	119	120	
312	313	314	315	316	317	318	322	323	324	325	326	327	328	329	330	331	332	

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Summary Employee Survey			My Personal Profile	Pre-Enrollment Communications		Personal Information											
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Summary Employee Survey	403(b)		My Personal Profile	Pre-Enrollment Communications	List All Companies	Personal Information	List All Companies	Proposed Plan Design	Authorization Letter	Pension Plan	IRA	Keogh	SEP	Non-Qualified Plans	Integrated Statement	Overview	Account Information
120	09	326	4	368	469	468	519 443	373	370	09	09	09	09	09	334	334	334
333	335	362	367	438	496	498	519	554	578	336	337	338	339	340	341	342	343

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Plan Description	Support Services	Planning Tools	Educational Materials	Integrated Statement	Overview	Account Information	Plan Description	Support Services	Planning Tools	Educational Materials	Disability	Life Insurance	Voluntary	Short Term Disability	LongTerm Disability	Optional Disability	Accidental Death and Dismemberment
334	334	334	334	336	336	336	336	336	336	336	61	61	61	355	355	355	355
344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361

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		Resource Profiles	Current Plar Summary	Proposal/Pla Design	Post-Enrolln Implementat	Result Presentation	Checklist Pa	Employee Profile	Dependent Information	Basic Life	Optional Life	Business Tr	Group Auto	BTI Process	Information Gathering	Plan Review/Des Interview	Plan Adoptic	Enrollment	Ongoing Administratio	
an liment on milliment on milliment on liment		4	φ	368	368	368	370	367	381	356	356	357	357	4	368	368	368	368	368	
Resource Profiles Current Plan Summany Proposal/Plan Design Post-Empliment Implementation Result Presentation Checklist Page Employee Profile Dependent Information Basic Life Optional Life Business Travel Group Auto BTI Process Information Gathering Plan Review/Design Interview Plan Adoption Enrollment Ongoing Administration			371			377	379	381	383	363	364	365	366	368	370	372	374	376	378	
369 4 Resource 371 -6 Current Plan 373 368 Proposal/Plan 375 368 Proposal/Plan 377 368 Result Result Presentation 379 370 Checklist Page 381 367 Employee 383 381 Information 365 357 Business Travel 366 357 Group Auto 368 4 BTI Process 370 368 Information 372 368 Plan Review/Design Interval 374 368 Plan Review/Design Interval 375 368 Enrollment 376 368 Enrollment 377 368 Congoing	-																			

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Personal	General Information	Expert Group	My Personal Profile	Resource Profile			Pre-Enrollment Communications	Enrollment	Results Presentation	Census Information	Authorization Page	Benefit Summary	Demographics	Floorplan	Final Plan Design	My Personal Profile	Resource Profiles	Current Plan Summary
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Personal Information	General Information	Expert Group	My Personal Profile	Resource Profile	Plan Review / Design Interview	Proposed Plan Design	Pre-Enrollment Communications	Enrollment	Results Presentation	Census Information	Authorization Letter	Benefit Summary	Demographics	Floorplan	Final Plan Design	My Personal Profile	Resource Profiles	Current Plan Summary
367	381	0	440	-440	443	448 443	450 443	443	443	445	445	459	459	φ	449	441	470 -441	469
380	382	440	442	444	446	448	450	452	454	456	458	460	462	464	466	468	470	472 469

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Benefit Elections	General Information	Location	Benefit Summary	Financial Summary	Demographics	Floor Plan	Proposed Plan Design	Final Plan Design	Final Plan Design	Product Carrier Sheet	Plan Review		Design Interview sc	Benefit Plan Information Form	Census Form	Company Profile	HR Systems	Payroll Systems
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Benefit Elections	General Information	Location	Benefit Summary	Financial Summary	Demographics	Floor Plan	Proposed Plan Design	Final Plan Design	Final Plan Design	Product Carrier Sheet	Plan Review		Design Interview 0	Benefit Plan Information Form	Census Form	Company Profile	HR Systems	Payroll Systems
384 381	385 369	386 369	387 599	388 599	389 599	390 599	391 -8	392 -8	393 -6	394 -6	395 -6	414 412	9- 262	398 -5	399 -5	400 -5	401 -5	402 -5

9 Graphical Floorplan Powerview Objectives															sc://GetPageURL(437);				
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an unct	Graphical	Final Plan Design Activity Log	Plan Products Plan Features	Plan Solution	Preliminary Proposal	Benefit Product Choices	Plan Budget	Plan Goals	Employer Objectives	Available Products	Plan Design Questions	Corporate Philosophy	Plan Considerations	Plan Observations	Checklist Page	Employer Objectives	Benefits Overview	Graphical Floorplan	
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403 436 437 407 408 409 409 411 412 415 416 417 417 418 417 418 417 418 417 418 417 418 417 417 418 417 417 417 417 417 417 417 417 417 417	403	421	419	418	417	416	415	413	412	411	410	409	408	407	437	436	404	403	

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Group Meeting	Broker of Record	Licensee	Administration Data Sheet	Communications Program	Adoption Agreement	Implementation Plan	Enrollment Forms	Confirmation Forms	Payroll Report	Key Plan Information	Plan Comparison	Summary Employee Survey	BTI Process	Information Gathering		Plan Adoption	Group Meeting
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Group Meeting	Broker of Record	Licensee	Administration Data Sheet	Communications Program	Adoption Agreement	Implementation Plan	Enrollment Forms	Confirmation Forms	Payroll Report	Key Plan Information	Plan Comparison	Summary Employee Survey	BTI Process	Information Gathering	Current Plan Discussion	Plan Adoption	Group Meeting
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	424	44	426	427	428	429	430	431	432	433	434	435	443	445	447	449	451

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bd	bd	bd	bd	bd	рд	рд	bd	sc	bd	рд	bd	bd	bd	bd	bd	рд	bd
Demographics	Checklist	Final Plan Design	Admin Data Sheet	Product Carrier Sheet	Broker of Record	Proposed Plan Design	Floor Plan	Employee Profile	Endorsements	Privacy Statement	Name and Contact Information	Purchase Information	Activity Information	Name and Contact Information		Employee Detail	Final Floor Plan
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Demographics	Checklist	Final Plan Design	Admin Data Sheet	Product Carrier Sheet	Broker of Record	Proposed Plan Design	Floor Plan	Employee Profile	Endorsements	Privacy Statement	Name and Contact Information	Purchase Information	Activity Information	Name and Contact Information	Floor Plan	Employee Detail	Floor Plan
488 472	489 475	490 475	491 475	492 475	493 475	494 -8	495 -8	499 468	503 369	505 369	507 380	509 380	511 380	520 498	605 554	558 554	560 555

562 448 564 562 568 563 568 563 570 474 571 570 574 570 578 570 589 370 589 589 589 589 589 589 589 589 589 589 601 516	Proposed Plan Design Final Floor Plan Proposed Plan Design Entry Page Employee Detail Final Floor Plan Products Summary Product Detail COBRA Census Benefit Statement Benefit Statement Administration New Hire Process Process Process Process Participant Medical Medical Medical Medical Summary Benefit Oboices		Proposed Plan Entry Page Employee Detail Final Floor Plan Besign Entry Page Employee Detail	0	www.benefittechnologies.com/product-overview.html http://smartchannels.corelogicsoftware.com/bti/entrypage.htm http://smartchannels.corelogicsoftware.com/bti/eorplan.gif http://smartchannels.corelogicsoftware.com/bti/foorplan.gif http://smartchannels.corelogicsoftware.com/BTI/Product Summary.htm http://smartchannels.corelogicsoftware.com/BTI/Product Summary.htm http://smartchannels.net smartchannels.corelogicsoftware.com/Archive/demo/benefit_summary.htm http://smartchannels.corelogicsoftware.com/Archive/demo/hrisnewhireprocess.htm http://smartchannels.corelogicsoftware.com/Archive/demo/hrisnewhireprocess.htm http://smartchannels.corelogicsoftware.com/Archive/demo/healthcareenrollmenta http://smartchannels.corelogicsoftware.com/Archive/demo/healthcareenrollmenta
603 554	Goals Summary	0		bd	

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			sc://ShowForm(1);	sc://ShowForm(5);	sc://ShowForm(6);	sc://ShowForm(22);	sc://ShowForm(23);						http://smartchannels.corelogicsoftware.com/bti/egpihome.htm	http://smartchannels.corelogicsoftware.com/bti/egephome.htm			
Ьб	bd	bd	рд	bd	bd	bd	рд	рд	Ьд	ЬВ	bd	рд	sc	sc	рд	рд	6d
Giobal Preferences	Activity Information	Computer Information	General Information	Dependent Information	Benefit Elections	General Information	Location	Offerings	Endorsements	Account Management	Privacy Statement	Site Map	Personal Information	Employee Profile	Name and Contact Information	Demographic Information	Purchase Information
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Global Preferences	Activity Information	Computer Information	General Information	Dependent Information	Benefit Elections	General Information	Location	Offerings	Endorsements	Account Management	Privacy Statement	Site Map	Personal Information	Employee Profile	Name and Contact Information	Demographic Information	Purchase Information
498	498	498	499	499	499	470	470	470	470	470	470	470	445	442	536	536	540 536
523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540

			sc://ShowForm(1);	sc://ShowForm(5);	sc://ShowForm(6);	sc://ShowForm(22);	sc://ShowForm(23);						http://www.benefittechnologies.com/product-steps.html	http://smartchannels.corelogicsoftware.com/bti/employer summary.htm	http://smartchannels.corelogicsoftware.com/btt/Final_fp.gif	http://smartchannels.corelogicsoftware.com/bti/cbProductCarrier.htm	www.benefittechnologies.com/product-steps.html	http://smartchannels.corelogicsoftware.com/bt/fer analysishtm
Dôd	рд	bd	bd	bd	bd	bd	bd	bd	bd	bd	bd	bd	sc	bd	bd	bd	SC	Бд
Global Preferences	Activity Information	Computer Information	General Information	Dependent Information	Benefit Elections	General Information	Location	Offerings	Endorsements	Account Management	Privacy Statement	Site Map		Employer Summary			Final Plan Design	Employer Summary
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Global Preferences	Activity Information	Computer Information	General Information	Dependent Information	Benefit Elections	General Information	Location	Offerings	Endorsements	Account Management	Privacy Statement	Site Map	Final Plan Design	Employer Summary	Benefit Summary	Employee Detail	Final Plan Design	Employer Summary
536	536	536	537	537	537	444	444	444	444	444	444	444	373	554	555	222	448	562
541	542	543	544	545	546	547	548	549	550	551	552	553	555	222	559	561	563	565

http://smartchannels.corelogicsoftware.com/bti/Final_fp.gif	http://smartchannels.corelogicsoftware.com/bti/cbproductcarrier.htm	http://www.benefittechnologies.com/company-benefits.html					http://smartchannels.corelogicsoftware.com/BTI/plan information.htm		http://smartchannels.corelogicsoftware.com/Archive/Prudential/Portal1.htm	http://smartchannels.corelogicsoffware.com/Archive/demo/benefits_administration	http://smartchannels.corelogicsoftware.com/Archive/demo/new_hire_front.htm	http://smartchannels.corelogicsoftware.com/Archive/demo/healthcareenrollmentb	http://smartchannels.corelogicsoftware.com/BTI/postmodem.htm			http://smartchannels.corelogicsoftware.com/BTI/current plan questions.htm		
bd	bd	sc	bd	bd	bd	bd	bd	bd	Бд	SA	SA	bd	bd	Бd	sc	bd	bd	bd
Final Plan Design	Product Carrier Sheet	Final Plan Design	Employer Summary	Final Plan Design	Product Carrier Sheet													
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Final Plan Design	Product Carrier Sheet	Final Plan Design	Employer Summary	Final Plan Design	Product Carrier Sheet	Company Information	Plan Information	Floor Plan	Personal Portal	HR Administration	Manager Self Service	Healthcare by State	Carrier History	Claims History	Current Plan Discussion	Current Plan Questions	Solution Highlights	Benefit Summary
D 567 563	E99 699 🗆	571 474	□ 573 570	575 571	577 571	579 370	581 370	□ 632 459	587 15	589 2	591 2	594 593	D 596 370	☐ 598 370	000 372	005 600	604 554	606 554
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						http://smartchannels.corelogicsoftware.com/BTI/broker of record.htm							
6d	bd	6d	S	bd	bd	bd	6d	bd	bd	bd	bd	bd	S
0	0	0	0	0	0	0	0	0	0	0	0	0	0
Products Considered	Solution Highlights	Implementation Steps	Final Plan Documentation	Flex Questionnaire	Checklist Page	Broker of Record Letter	Plan Document Cover Letter	Checklist Page	Product Information	Carrier History	Claims History	Observations	Design Interview 0
554	555	555	374	613	614	614	614	624 445	626 445	628 445	630 445	634 447	636 446
809	610	612	614	616	618	620	622	624	626	628	630	634	636

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